

Having thus described the invention there is claimed as new and desired to be secured by Letters Patent:

1. A system for monitoring a subject, the system comprising a processor, a memory associated with the processor, a location determining device generating subject location data and a sensor coupled to the processor, the sensor monitoring a physiological parameter comprising the identity of the subject and generating identity data, the memory storing subject identity parameter boundary data, the memory storing location parameter boundary data, the processor receiving the identity data and the subject location data, the processor comparing the received data and the boundary data stored in the memory, the processor generating a signal for initiating corrective action when either the subject identity data or the location data does not lie within a permitted range of boundary data.

2. A system for monitoring a subject as constructed in accordance with claim 1 further including a sensor for monitoring a further physiological parameter of the subject and generating further physiological parameter data, the processor receiving the further physiological parameter data, the memory storing further boundary data, the processor comparing the further physiological

parameter data with the further boundary data stored in the memory, the processor generating a signal for initiating corrective action when the further physiological parameter data does not lie within a permitted range of further boundary data.

3. A system for monitoring a subject as constructed in accordance with claim 2 wherein the further physiological parameter data comprises data pertaining to subject use of a controlled substance.

4. A system for monitoring a subject as constructed in accordance with claim 1 further including an output device coupled to the processor, the output device comprising an annunciator, the processor driving the annunciator to advise the subject to furnish a specimen to the sensor for monitoring identity.

5. A system for monitoring a subject as constructed in accordance with claim 2 further including an output device coupled to the processor, the output device comprising an annunciator, the processor driving the annunciator to provide a warning signal to the subject advising that compared data does not lie within a permitted range of stored data.

6. A system for monitoring a subject as constructed in accordance with claim 1 wherein the processor and the memory are positioned remote from the subject.

7. A system for monitoring a subject required to maintain levels of prescribed medication, the system comprising a processor, a memory associated with the processor, a sensor monitoring levels of prescribed medication taken by the subject, the sensor generating medication level data, the memory storing medication level boundary data, the processor comparing the generated medication level data with the stored medication level boundary data, the processor generating a signal for initiating corrective action when the compared data does not lie within a permitted range of the boundary data.

8. A system for monitoring a subject required to maintain levels of prescribed medication as constructed in accordance with claim 7 further including a medical administration device, the signal for initiating corrective action comprising a signal for actuation of the administration device.

9. A system for monitoring a subject required to maintain levels of a prescribed medication as constructed in accordance with claim 7 further including a location determining device generating subject location data, the processor receiving the subject location data, the signal for initiating corrective action including subject location information.

10. A system for monitoring a subject in need of medical supervision, the system comprising a sensor for monitoring a health related physiological parameter of the subject, a processor, a memory and a medical administration device, the sensor monitoring the physiological parameter and generating physiological parameter data, the memory storing physiological parameter boundary data, the processor comparing the generated physiological parameter data with the physiological parameter boundary data, the processor generating a signal for actuating the medical administration device when the physiological parameter data does not lie within a permitted range of the physiological parameter boundary data.

11. A system for monitoring a subject in need of medical supervision as constructed in accordance with claim 10 wherein the medical administration device comprises an implanted pump.

12. A system for monitoring a subject in need of medical supervision as constructed in accordance with claim 10, wherein the medical administration device comprises a transdermal patch.

13. A system for monitoring a subject in need of medical supervision as constructed in accordance with claim 10, the system further including a location determining device generating a subject location signal, the processor transmitting the subject location signal to a remote location when the physiological parameter data does not lie within a permitted range of the physiological parameter boundary data.

14. A system for monitoring a subject in need of medical supervision as constructed in accordance with claim 13, wherein the medical administration device comprises an implanted pump.

15. A system for monitoring the vehicular transport of children or others in need of supervision, the system comprising a processor, a memory associated with the processor, a sensor carried on a transport vehicle, the sensor monitoring a physiological parameter comprising the identity of each child or other person in need of supervision entering and exiting the

transport vehicle, the memory storing identity boundary data of each child entering the vehicle, the processor accessing the memory and determining if there are any children remaining on the transport vehicle after a last scheduled drop off.

16. A system for monitoring the vehicular transport of children or others in need of supervision as constructed in accordance with claim 15 further including a location determining device carried on the transport vehicle, the location determining device generating vehicle location data, the memory storing boundary data relating to the geographic location of a designated drop off point for each child present on the vehicle, the processor receiving the vehicle location data and accessing the memory to determine when each child is approaching their designated drop off point, the processor initiating an advisory communication to the parent or person responsible for the well being of each child before the vehicle reaches each child's designated drop off point.

17. A system for monitoring the vehicular transport of children or others in need of supervision as constructed in accordance with claim 15, the processor initiating a communication when a child whose physiological parameter data does not lie within the identity boundary data enters the vehicle.

18. A system for monitoring the vehicular transport of children as constructed in accordance with claim 15 wherein the processor and the memory are carried on the vehicle.

19. A system for monitoring a subject as constructed in accordance with claim 2, the subject operating equipment, the further parameter comprising a measure of the capability of the subject to safely operate said equipment.

20. A system for monitoring a subject operating equipment as constructed in accordance with claim 19 wherein the measure of capability comprises a measure of alertness of the subject.

21. A system for monitoring a subject operating equipment as constructed in accordance with claim 19, the system further including an output device for preventing operation of the equipment, the signal for initiating corrective action actuating said output device.

22. A system for monitoring a subject as constructed in accordance with claim 1, the subject comprising a vehicle operator, the processor accessing time of day information, the memory storing time of day boundary data, the processor accessing the time of day boundary data and comparing the time of day information with the

time of day boundary data, the processor generating a signal for initiating corrective action when the time of day does not fall within a permitted range of the time of day boundary data.

23. A system for monitoring a subject as constructed in accordance with claim 1, the processor calculating the accumulated hours of equipment operation by the subject, the memory storing permitted hours of operation boundary data, the process comparing the accumulated hours of operation with the hours of operation boundary data and generating the signal for initiating corrective action when the accumulated hours of operation does not lie within a permitted range of the hours of operation boundary data.

24. A system for monitoring a subject as constructed in accordance with claim 1, the processor accessing operator boundary data from a remote location data bank, the processor storing the remote location boundary data in the memory.

25. A system for monitoring a subject as constructed in accordance with claim 1, wherein the remote location boundary data comprises time of day boundary data, the subject comprising a vehicle operator, the processor accessing time of day information, the processor accessing the time of day boundary data, the processor generating the signal for initiating corrective action when the time of day does not fall within a permitted range of the time of day boundary data.



26. A system for monitoring the vehicular transport of children or others in need of supervision on a vehicle, the system comprising a processor, a memory associated with the processor, a location determining device carried on the vehicle, the location determining device generating vehicle location data, a sensor carried on the vehicle, the sensor monitoring a physiological parameter comprising the identity of each child on the vehicle, the memory storing geographic location boundary data pertaining to each child on the vehicle, the processor receiving the vehicle location data and comparing the vehicle location data with the stored location boundary data pertaining to each child, the processor determining when the vehicle is about to enter each child's designated drop off point, the processor initiating a communication before the vehicle reaches each child's designated drop off point.